

CLAIMS

1. A disk drive carrier comprising:
 - 2 a base for receiving a disk drive; and
 - 3 a latching mechanism rotatably attached to the base permitting a lever to rotate
 - 4 between an open position and a closed position;
 - 5 said lever having a lower engagement point and an upper engagement point.
1. 2. The disk drive carrier of claim 1 additionally comprising a release tab attached to the upper engagement point, said release tab being downwardly movable.
1. 2. 3. The disk drive carrier of claim 1 wherein the lower engagement point comprises a lug.
1. 2. 4. The disk drive carrier of claim 1 wherein the upper engagement point comprises a shoulder.
1. 2. 5. The disk drive carrier of claim 1 additionally comprising a securement pad attached to the latching mechanism.
1. 2. 6. The disk drive carrier of claim 1 additionally comprising a handle calculating carrier insertion into the chassis, the handle being attached to the lever.
1. 2. 7. The disk drive carrier of claim 1 wherein the latching mechanism is formed of molded plastic.
1. 2. 8. The disk drive carrier of claim 1 wherein the latching mechanism comprises polycarbonate plastic.
1. 2. 9. A base for mounting a disk drive, the base comprising:
 - 2 a channel formed with an upper surface comprising a substantially flat interior, a
 - 3 lower surface comprising a substantially flat interior and a side wall with a finned
 - 4 exterior.
1. 2. 10. The base of claim 9 wherein the upper surface interior and the lower surface interior are contoured to compliment an exterior surface of a hard drive to be mounted between the upper and lower surfaces.
1. 2. 11. The base of claim 9 additionally comprising retention clips mounted in slots in the upper surface and slots in the lower surface.
1. 12. The base of claim 9 wherein the retention clips comprise spring steel.

1 13. The base of claim 9 wherein the base comprises an electrically and thermally
2 conductive material.

1 14. The base of claim 9 wherein the base comprises aluminum.

1 15. An electromagnetic interference shield attached to a disk drive carrier, said
2 electromagnetic interference shield comprising:
3 a multi-venthole frontal plate connected at a substantially right angle to a side panel;
4 and
5 the side panel housing at least one electrically conductive finger clip protruding in a
6 lateral direction.

1 16. The electromagnetic interference shield of claim 15 wherein the shield comprises
2 steel.

1 17. The electromagnetic interference shield of claim 15 wherein the conductive finger
2 clip comprises spring steel.

1 18. A method for inserting a disk drive into a peripheral bay chassis comprising:
2 receiving a disk drive into a base of a disk drive carrier, said base being rotatably
3 attached to a latching mechanism, wherein a lever can rotate between an open
4 position and a closed position, said lever having a lower engagement point and an
5 upper engagement point;
6 inserting the carrier into a peripheral bay chassis slot while the lever is in an open
7 position; and
8 rotating the lever to the closed position to engage the peripheral bay chassis with the
9 lower engagement point and the upper engagement point.

1 19. The method of claim 18 with the additional step of contacting an adjacent disk drive
2 with at least one electrically conductive finger clip prior to engagement of a high
3 speed back plane with a disk drive connector.

1 20. The method of claim 18 with the additional step of depressing a release tab prior to
2 rotating the lever into the closed position and releasing the release tab after engaging
3 the lower engagement point.

Version with markings to show changes made

In the claims:

Claims 1-17 have been cancelled.

Claims 18-20 have been amended as follows:

18. (Amended) A method for inserting a disk drive into a peripheral bay chassis comprising:

receiving a disk drive into a base of a disk drive carrier, said base having an uppermost surface and being rotatably attached to a latching mechanism, wherein a lever can rotate between an open position and a closed position, said lever [having] comprising a lower engagement point and an upper engagement point;

inserting the carrier into a peripheral bay chassis slot while the lever is in an open position; and

securing the carrier to the peripheral bay chassis by rotating the lever to the closed position to extend the upper engagement point beyond the uppermost surface of the base and engage the peripheral bay chassis [with] and to extend the lower engagement point [and the upper engagement point] to engage the peripheral bay chassis.

19. (Amended) The method of claim 18 [with the additional step of] further comprising contacting an adjacent disk drive with at lease one electrically conductive finger clip prior to engagement of a high speed back plane with a disk drive connector.

20. (Amended) The method of claim 18 [with the additional step of] further comprising depressing a release tab prior to rotating the lever into the closed position and releasing the release tab after engaging the lower engagement point.